



Recombinant Human Activin A (rhActivinA)

Catalog #108-24

Description

Activin A belongs to the superfamily of TGF-beta cytokines. Activin A works to stimulate the synthesis and secretion of follicle-stimulating hormone (FSH) proteins. Activins are involved in many biological activities like cell proliferation, differentiation, apoptosis, immune responses, and endocrine functions. Activins are homodimers or heterodimers of two beta subunits. Activins are closely related to Inhibins in that Inhibins having one beta subunit and one alpha subunit. Human Activin A shares 100% amino acid sequence identity with bovine, mouse, and rat Activin A. Recombinant human Activin A is a homodimer of two beta A subunits, each containing 116 amino acid residues.

Specifications

Synonyms:	Inhibin beta-A, Erythroid Differentiation Factor (EDF), follicle-stimulating hormone (FSH)-releasing protein
AA Sequence:	GLECDGKVNICKKKQFFVSFKDIGWNDWIIAPSGYH ANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSP FANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMI VEECGCS
Source:	mammalian cell
Molecular Weight:	26 kDa, as a disulfide-linked homodimeric protein
Purity:	> 95%

Quality Control

Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)
Sterility	No microorganisms
Physical Appearance:	Light yellow to white powder

Formulation

Lyophilized from a 0.2μm filtered solution in Tris-HCl, pH 8.0.

Reconstitution

Reconstitute in sterile distilled water to a concentration of 0.1-0.5 mg/mL.

Shipping and Storage

Rev. 1

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.

Usage

rhActivinA is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.